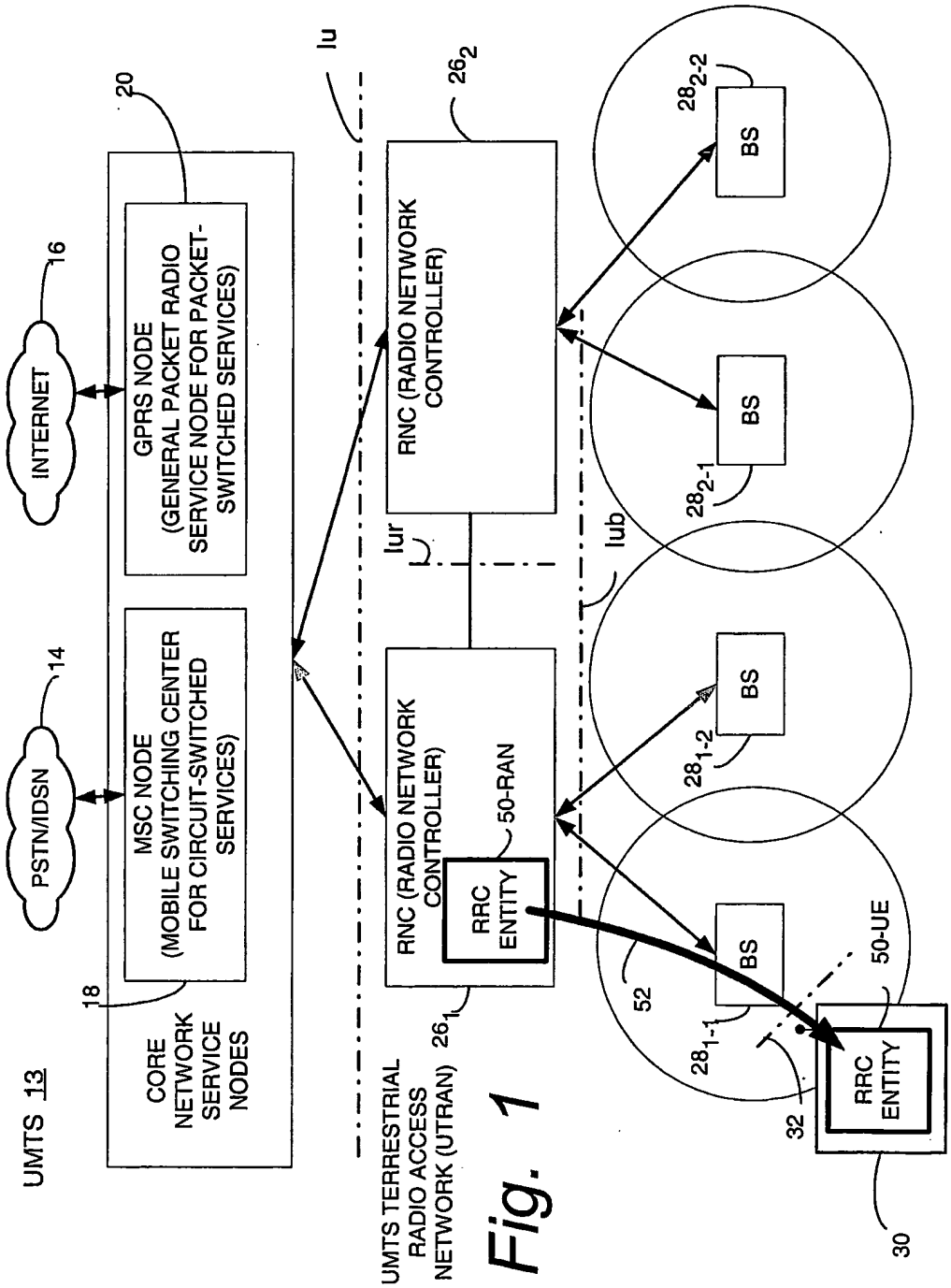
UMTS 13
CORE NETWORK SERVICE NODES
18
20
GPRS NODE (GENERAL PACKET RADIO SERVICE NODE FOR PACKET-SWITCHED SERVICES)
MSC NODE (MOBILE SWITCHING CENTER FOR CIRCUIT-SWITCHED SERVICES)
INTERNET
16
PSTN/IDSN
14
Iu
UMTS TERRESTRIAL RADIO ACCESS NETWORK (UTRAN)
RNC (RADIO NETWORK CONTROLLER)
RRC ENTITY
50-RAN
26_1
26_2
Iur
Iub
BS
28_{1-1}
28_{1-2}
28_{2-1}
28_{2-2}
52
50-UE
RRC ENTITY
32
30

Fig. 1

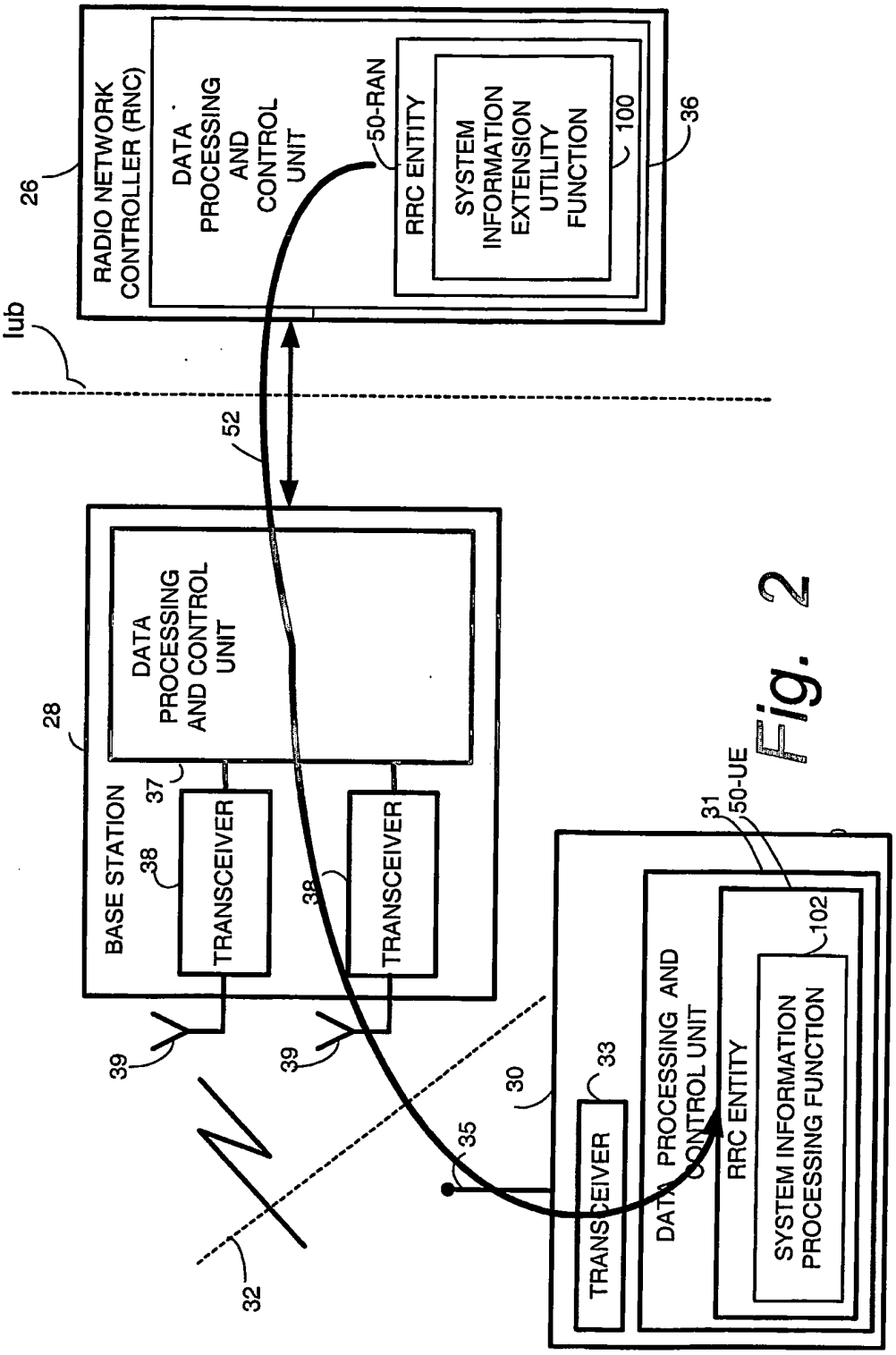
RADIO NETWORK CONTROLLER (RNC)
26
DATA PROCESSING AND CONTROL UNIT
50-RAN
RRC ENTITY
SYSTEM INFORMATION EXTENSION UTILITY FUNCTION
100
36
Iub
52
BASE STATION
28
DATA PROCESSING AND CONTROL UNIT
37
TRANSCEIVER
38
TRANSCEIVER
38
39
39
30
32
35
31
50-UE
TRANSCEIVER
33
DATA PROCESSING AND CONTROL UNIT
RRC ENTITY
SYSTEM INFORMATION PROCESSING FUNCTION
102

Fig. 2

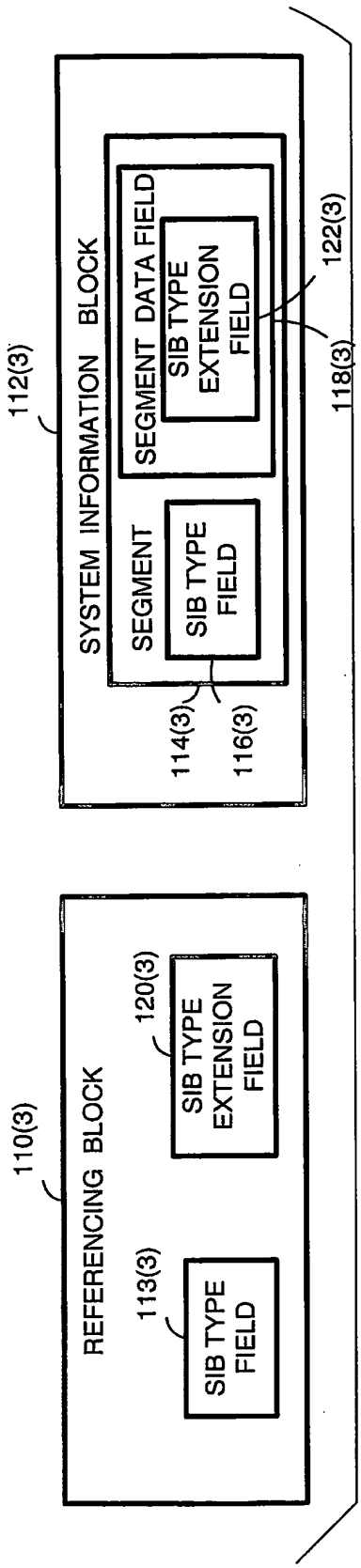
112(3)
SYSTEM INFORMATION BLOCK
SEGMENT
SIB TYPE FIELD
SEGMENT DATA FIELD
SIB TYPE EXTENSION FIELD
114(3)
116(3)
118(3)
122(3)
110(3)
REFERENCING BLOCK
113(3)
SIB TYPE FIELD
120(3)
SIB TYPE EXTENSION FIELD

Fig. 3

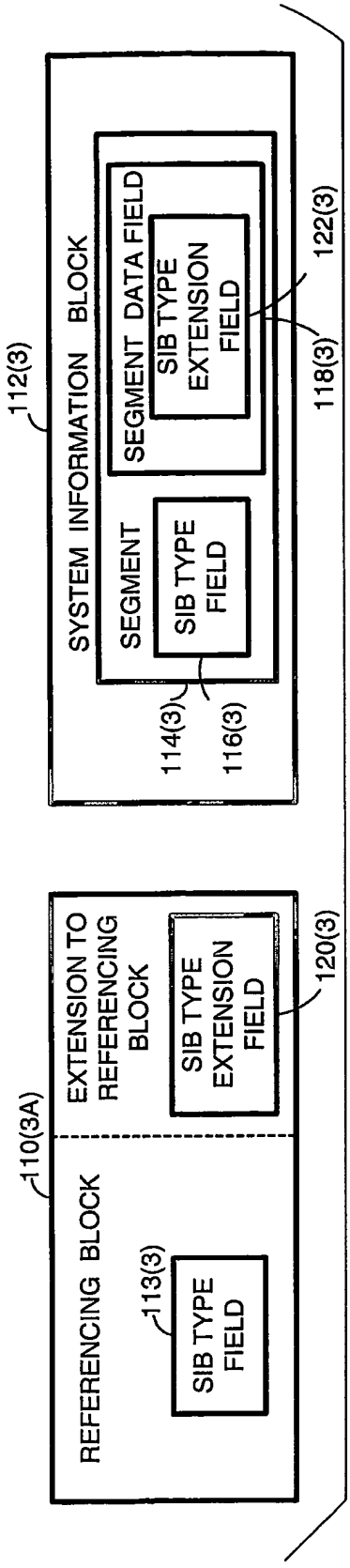
112(3)
SYSTEM INFORMATION BLOCK
SEGMENT
SIB TYPE FIELD
SEGMENT DATA FIELD
SIB TYPE EXTENSION FIELD
114(3)
116(3)
118(3)
122(3)
110(3A)
REFERENCING BLOCK
113(3)
SIB TYPE FIELD
EXTENSION TO REFERENCING BLOCK
SIB TYPE EXTENSION FIELD
120(3)

Fig. 3A

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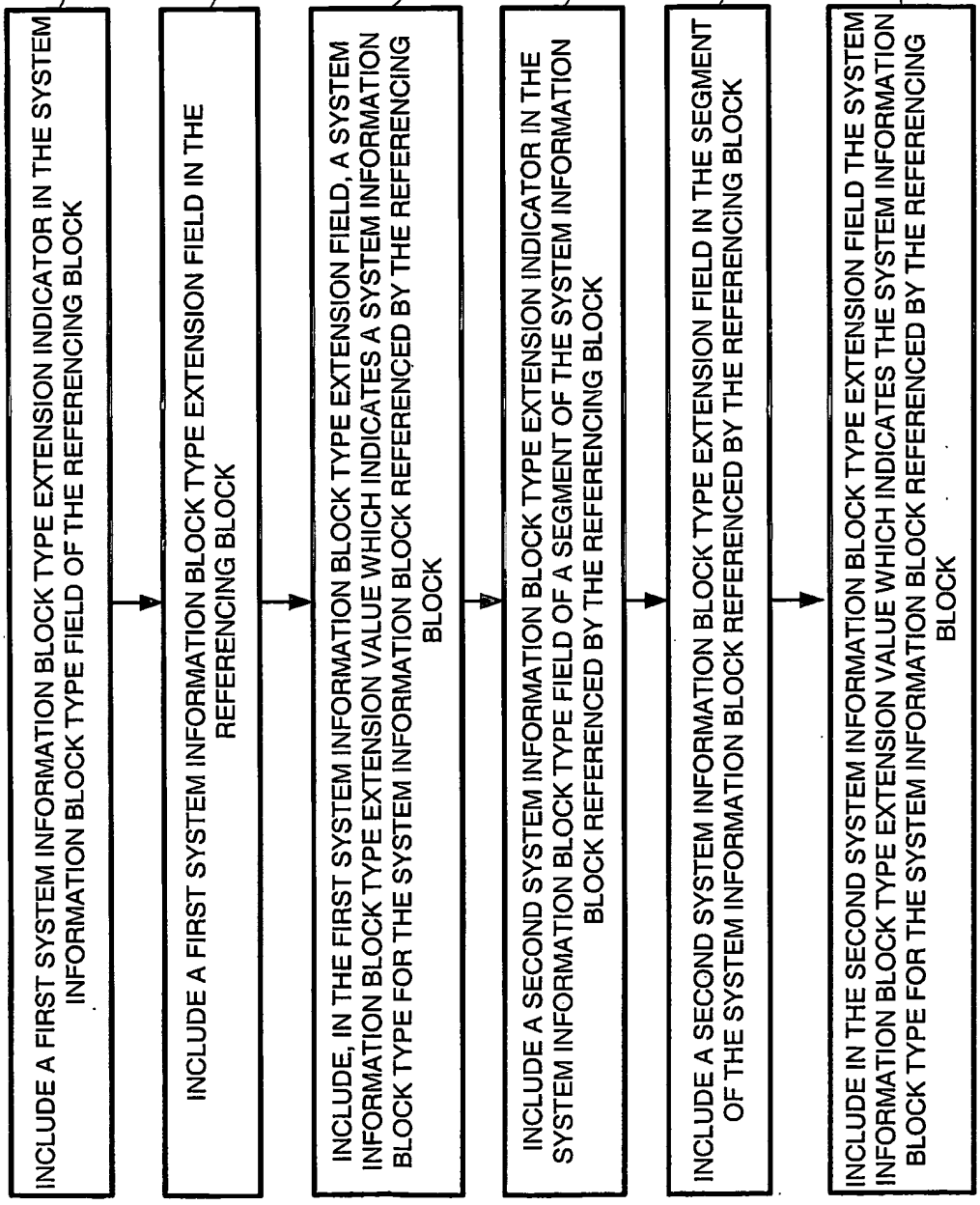

Fig. 4

Information Element/Group name	Value	Comment
Message type		SYSTEM INFORMATION
SFNprime		Arbitrary value in range (0..4094 by step of 2)
CHOICE *Segment combination*	Combination 2	
>First Segment		
>>SIB type	"1111"	Reserved for extension
>>SEG_COUNT	2	
>>SIB data fixed extension		
>>>SIB type extension	"000"	SIB 20
		219 bits

Fig. 5

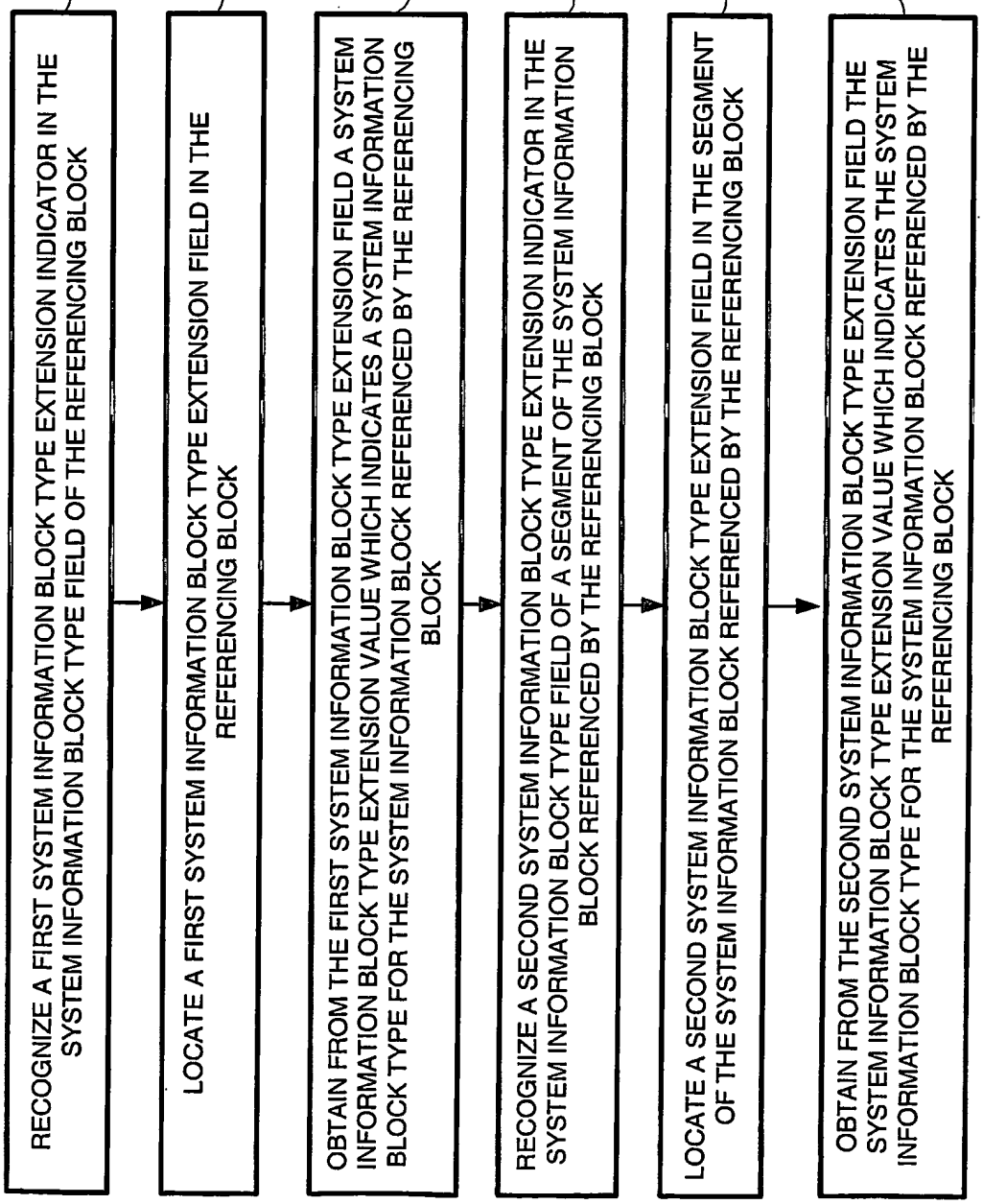
6-1
RECOGNIZE A FIRST SYSTEM INFORMATION BLOCK TYPE EXTENSION INDICATOR IN THE SYSTEM INFORMATION BLOCK TYPE FIELD OF THE REFERENCING BLOCK
6-2
LOCATE A FIRST SYSTEM INFORMATION BLOCK TYPE EXTENSION FIELD IN THE REFERENCING BLOCK
6-3
OBTAIN FROM THE FIRST SYSTEM INFORMATION BLOCK TYPE EXTENSION FIELD A SYSTEM INFORMATION BLOCK TYPE EXTENSION VALUE WHICH INDICATES A SYSTEM INFORMATION BLOCK TYPE FOR THE SYSTEM INFORMATION BLOCK REFERENCED BY THE REFERENCING BLOCK
6-4
RECOGNIZE A SECOND SYSTEM INFORMATION BLOCK TYPE EXTENSION INDICATOR IN THE SYSTEM INFORMATION BLOCK TYPE FIELD OF A SEGMENT OF THE SYSTEM INFORMATION BLOCK REFERENCED BY THE REFERENCING BLOCK
6-5
LOCATE A SECOND SYSTEM INFORMATION BLOCK TYPE EXTENSION FIELD IN THE SEGMENT OF THE SYSTEM INFORMATION BLOCK REFERENCED BY THE REFERENCING BLOCK
6-6
OBTAIN FROM THE SECOND SYSTEM INFORMATION BLOCK TYPE EXTENSION FIELD THE SYSTEM INFORMATION BLOCK TYPE EXTENSION VALUE WHICH INDICATES THE SYSTEM INFORMATION BLOCK TYPE FOR THE SYSTEM INFORMATION BLOCK REFERENCED BY THE REFERENCING BLOCK

Fig. 6

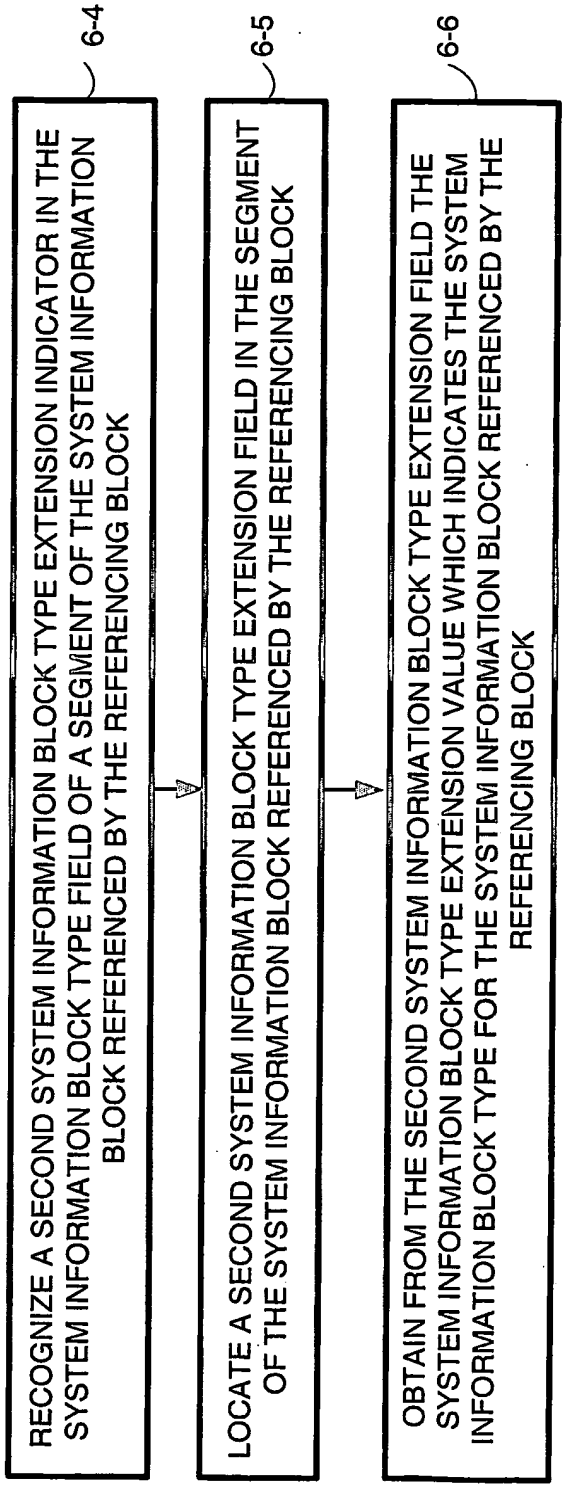
6-4
RECOGNIZE A SECOND SYSTEM INFORMATION BLOCK TYPE EXTENSION INDICATOR IN THE SYSTEM INFORMATION BLOCK TYPE FIELD OF A SEGMENT OF THE SYSTEM INFORMATION BLOCK REFERENCED BY THE REFERENCING BLOCK
6-5
LOCATE A SECOND SYSTEM INFORMATION BLOCK TYPE EXTENSION FIELD IN THE SEGMENT OF THE SYSTEM INFORMATION BLOCK REFERENCED BY THE REFERENCING BLOCK
6-6
OBTAIN FROM THE SECOND SYSTEM INFORMATION BLOCK TYPE EXTENSION FIELD THE SYSTEM INFORMATION BLOCK TYPE EXTENSION VALUE WHICH INDICATES THE SYSTEM INFORMATION BLOCK TYPE FOR THE SYSTEM INFORMATION BLOCK REFERENCED BY THE REFERENCING BLOCK

Fig. 6A

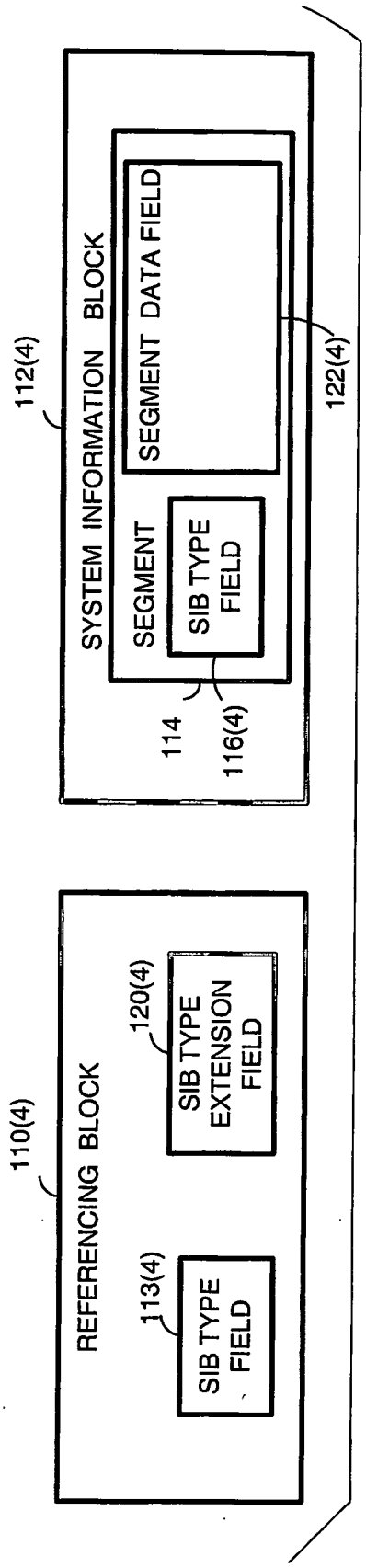
110(4)
REFERENCING BLOCK
113(4)
SIB TYPE FIELD
120(4)
SIB TYPE EXTENSION FIELD
112(4)
SYSTEM INFORMATION BLOCK
SEGMENT
114
SIB TYPE FIELD
116(4)
SEGMENT DATA FIELD
122(4)

Fig. 7

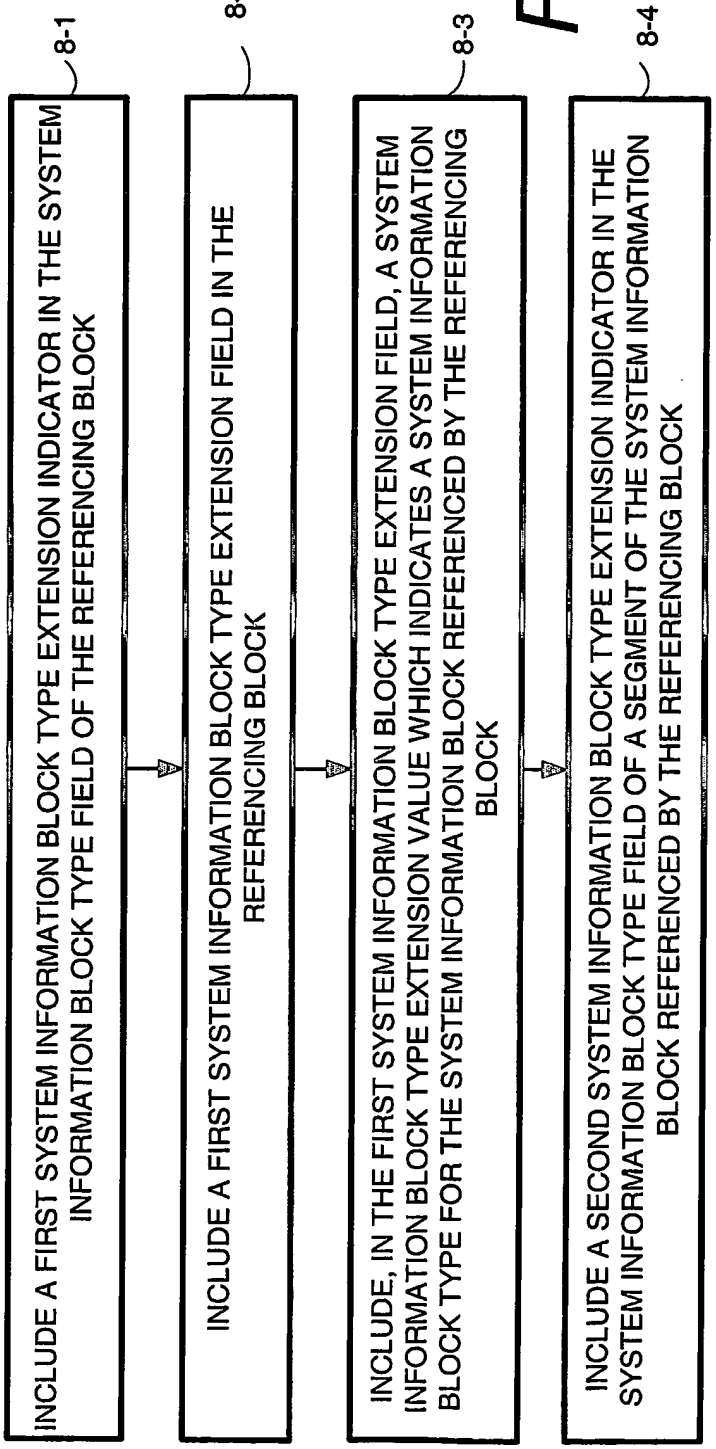
8-1
INCLUDE A FIRST SYSTEM INFORMATION BLOCK TYPE EXTENSION INDICATOR IN THE SYSTEM INFORMATION BLOCK TYPE FIELD OF THE REFERENCING BLOCK
8-2
INCLUDE A FIRST SYSTEM INFORMATION BLOCK TYPE EXTENSION FIELD IN THE REFERENCING BLOCK
8-3
INCLUDE, IN THE FIRST SYSTEM INFORMATION BLOCK TYPE EXTENSION FIELD, A SYSTEM INFORMATION BLOCK TYPE EXTENSION VALUE WHICH INDICATES A SYSTEM INFORMATION BLOCK TYPE FOR THE SYSTEM INFORMATION BLOCK REFERENCED BY THE REFERENCING BLOCK
8-4
INCLUDE A SECOND SYSTEM INFORMATION BLOCK TYPE EXTENSION INDICATOR IN THE SYSTEM INFORMATION BLOCK TYPE FIELD OF A SEGMENT OF THE SYSTEM INFORMATION BLOCK REFERENCED BY THE REFERENCING BLOCK

Fig. 8

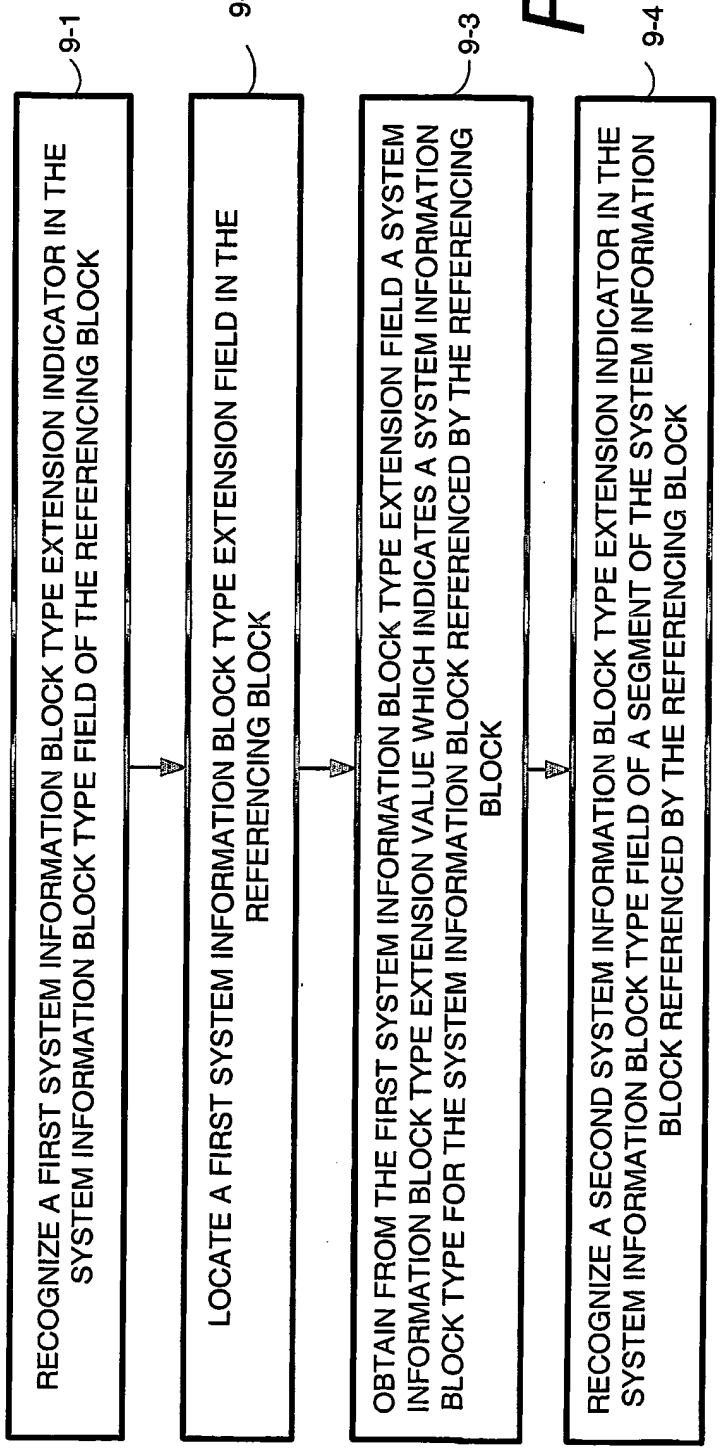
9-1
RECOGNIZE A FIRST SYSTEM INFORMATION BLOCK TYPE EXTENSION INDICATOR IN THE SYSTEM INFORMATION BLOCK TYPE FIELD OF THE REFERENCING BLOCK
9-2
LOCATE A FIRST SYSTEM INFORMATION BLOCK TYPE EXTENSION FIELD IN THE REFERENCING BLOCK
9-3
OBTAIN FROM THE FIRST SYSTEM INFORMATION BLOCK TYPE EXTENSION FIELD A SYSTEM INFORMATION BLOCK TYPE EXTENSION VALUE WHICH INDICATES A SYSTEM INFORMATION BLOCK TYPE FOR THE SYSTEM INFORMATION BLOCK REFERENCED BY THE REFERENCING BLOCK
9-4
RECOGNIZE A SECOND SYSTEM INFORMATION BLOCK TYPE EXTENSION INDICATOR IN THE SYSTEM INFORMATION BLOCK TYPE FIELD OF A SEGMENT OF THE SYSTEM INFORMATION BLOCK REFERENCED BY THE REFERENCING BLOCK

Fig. 9

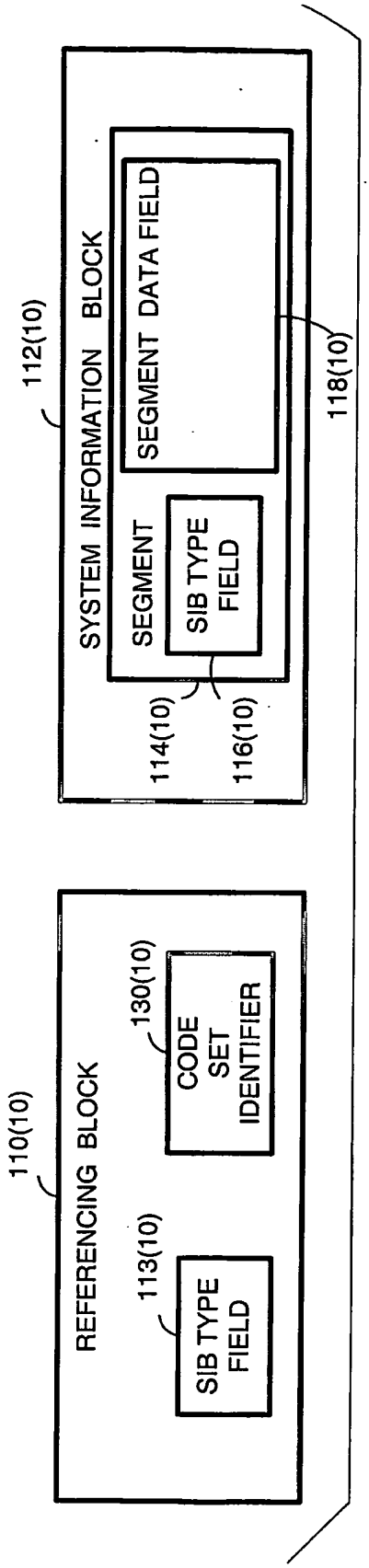
110(10)
REFERENCING BLOCK
113(10)
SIB TYPE FIELD
130(10)
CODE SET IDENTIFIER
112(10)
SYSTEM INFORMATION BLOCK
SEGMENT
SIB TYPE FIELD
SEGMENT DATA FIELD
114(10)
116(10)
118(10)

Fig. 10

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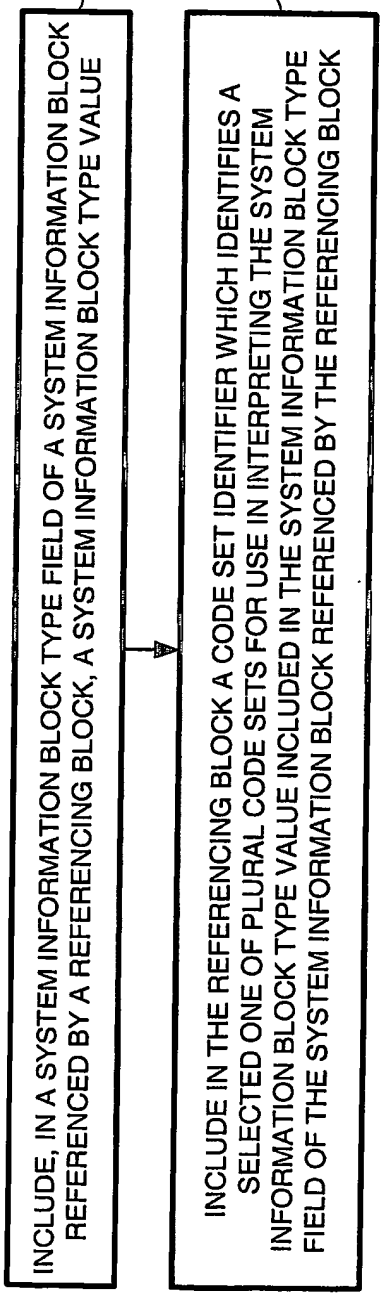

Fig. 11

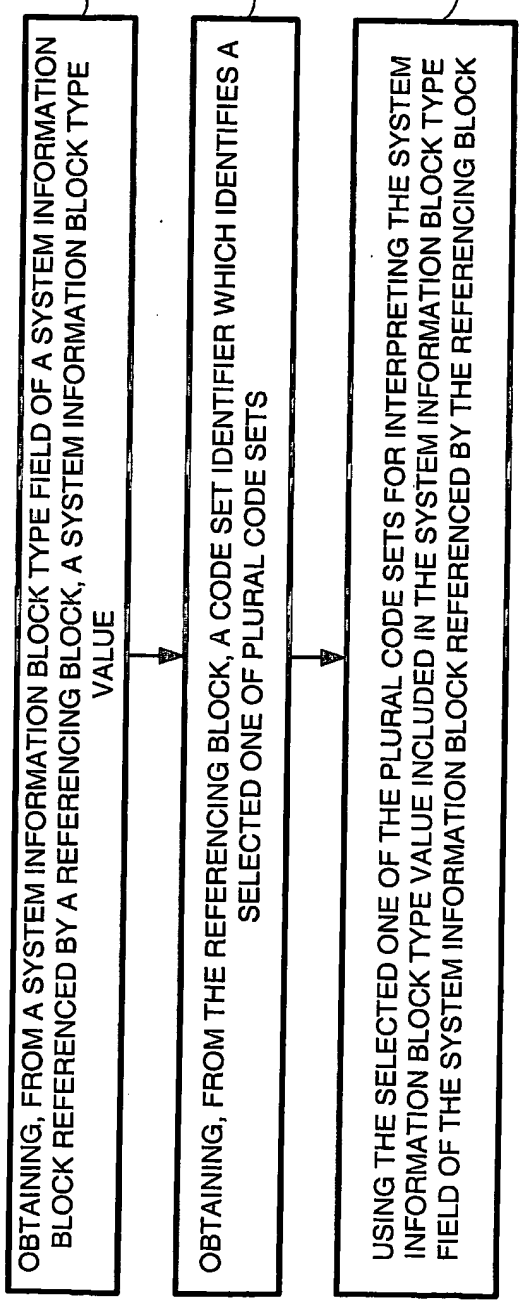

Fig. 12

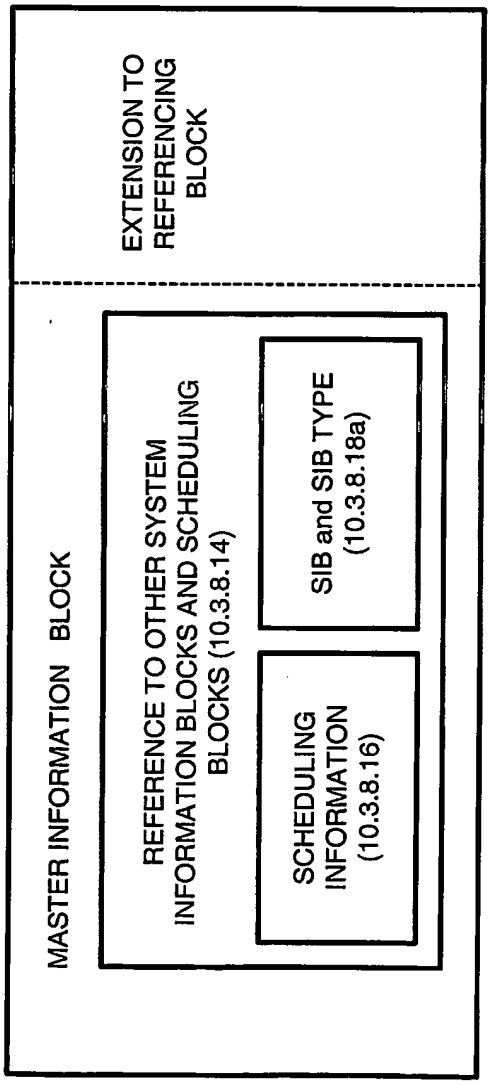
MASTER INFORMATION BLOCK
REFERENCE TO OTHER SYSTEM INFORMATION BLOCKS AND SCHEDULING BLOCKS (10.3.8.14)
SCHEDULING INFORMATION (10.3.8.16)
SIB and SIB TYPE (10.3.8.18a)
EXTENSION TO REFERENCING BLOCK

Fig. 13

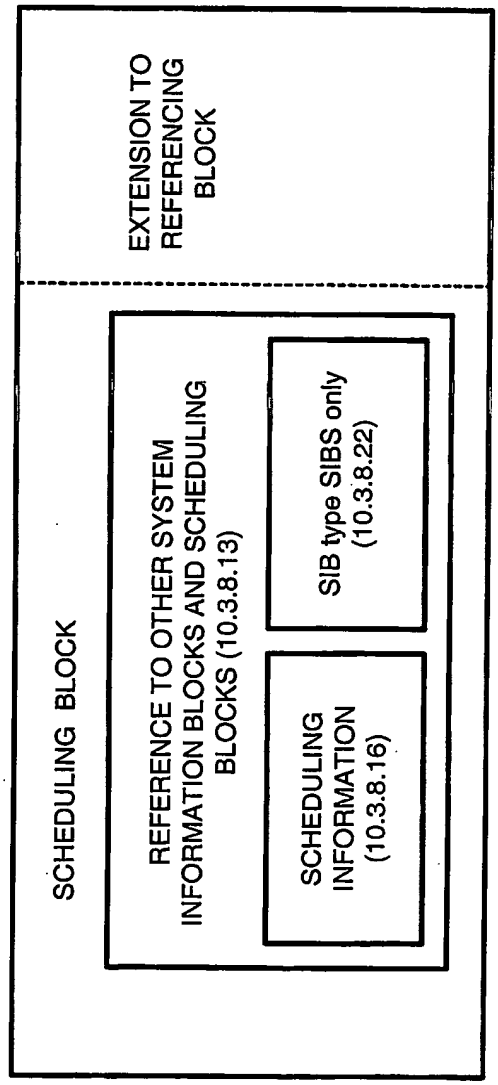
SCHEDULING BLOCK
REFERENCE TO OTHER SYSTEM INFORMATION BLOCKS AND SCHEDULING BLOCKS (10.3.8.13)
SCHEDULING INFORMATION (10.3.8.16)
SIB type SIBS only (10.3.8.22)
EXTENSION TO REFERENCING BLOCK

Fig. 14